



---

## Highlights

- Provide optimal performance for your demanding virtualization and database applications
- Reduce qualification time by standardizing on same system for two- and four-socket server needs
- Scale memory without adding CPUs or software licenses
- Get faster time to value by deploying workload-optimized systems



# IBM BladeCenter HX5

*Unprecedented flexibility, processing power, memory and I/O capacity in a blade server*

## Maximize memory

Going beyond the industry standards with unique innovations from fifth-generation IBM® X-Architecture® technology (eX5), the new IBM BladeCenter® HX5 enables unprecedented performance and utilization in a blade form factor for database and virtualization. With enhanced MAX5 scalability, the HX5 blade offers memory capacity of up to 1.25 TB—in a double-wide blade. The result is optimal server utilization with more virtual machines per system and larger and faster databases.

## Minimize cost

With MAX5, HX5 offers the most memory of any server in its class. Reduce software license costs by expanding memory capacity with MAX5 without purchasing additional processors.

Easy to own, manage and upgrade with pay-as-you-grow expansion, the HX5 blade server helps protect your investments over the long term. Capabilities such as advanced light path diagnostics, error handling and around-the-clock remote access management help simplify systems management and minimize downtime. Automatic node failover and QPI faildown help promote greater system uptime.

## Simplify deployment

Flexible configurations make it easy to implement the right system. Get up and running up to four times faster by standardizing on a single platform for two- and four-socket server needs. Harness the MAX5 module to boost memory without adding processors or software license costs.

Select configurations of the HX5 blade are part of the IBM Express Portfolio™ designed to meet the needs of midsized businesses. Easy to manage, Express models and configurations vary by country.





© Copyright IBM Corporation 2012

IBM Systems and Technology Group  
Route 100  
Somers, New York 10589

Produced in the United States of America  
November 2012

IBM, the IBM logo, ibm.com, BladeCenter, and X-Architecture are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at [ibm.com/legal/copytrade.shtml](http://ibm.com/legal/copytrade.shtml)

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.



Please Recycle

## IBM BladeCenter HX5 at a glance

<b>Form factor/height</b>	Singlewide (30 mm) – double-wide (60 mm)
<b>Processor</b> (max)	Intel Xeon E7-8800, E7-4800 and E7-2800 processors; 6/8/10 cores, up to 2.67 GHz Up to 2 processors per single-wide HX5; scalable to 4 processors
<b>Number of processors</b> (std/max)	1/2 (scalable to 4)
<b>Cache</b> (max)	Up to 30 MB per processor (10 core)
<b>Memory</b> (max)	16 DDR-3 VLP DIMM slots, capacity up to 512 GB, per single-wide HX5, 1.0 TB for a 4-socket HX5 configuration, and 1.25 TB for an HX5 + MAX5 configuration
<b>Expansion slots</b>	<ul style="list-style-type: none"><li>1 CIOv slot (standard PCIe daughter card) and 1 CFFh slot (high-speed PCIe daughter card) for total of 8 ports of I/O to each blade, including 4 ports of high-speed I/O</li><li>Scalable up to 16 ports of I/O in 4-socket, double-wide form factor</li></ul>
<b>Disk bays</b> (total/hot swap)	Two non-hot-swap bays supporting solid-state drives per single-wide HX5
<b>Maximum internal storage</b>	Up to 800 GB of solid-state storage per single-wide HX5 (with 400 GB SSDs)
<b>Network interface</b>	Broadcom 5709S onboard NIC with dual Gigabit Ethernet ports with TOE
<b>RAID support</b>	Optional RAID-0, -1, -1E
<b>Systems management</b>	Integrated systems management processor
<b>Operating systems supported</b>	Microsoft Windows, Red Hat Linux, SUSE Linux, VMware
<b>Limited warranty</b>	3-year customer replaceable unit and on-site limited warranty

## For more information

### World Wide Web

- U.S. [ibm.com/bladecenter/](http://ibm.com/bladecenter/)
- Canada [ibm.com/systems/ca/en/servers/bladecenter](http://ibm.com/systems/ca/en/servers/bladecenter)